ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Providing Borewell and Pipeline Work in Kodigehalli Ward No. 08, Kodigehalli, BBMP, Bangalore.

Type of Road Surface	Minimum Number of Tests as per IRC norms	Number of Test done during execution	Percentage of Tests carried out as per IRC norms
I	II	III	IV
CIVIL WORKS	10	10	100%
TOTAL	**10**	**10**	**100%**

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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Providing Borewell and Pipeline Work in Kodigehalli Ward No. 08, Kodigehalli, BBMP, Bangalore.

Description	Quantity	Unit	Total Number of test to be carried out as per IRC	Actual Number of Test to be conducted	% Completed
I	II	III	IV	V	IV
1) PCC 1:4:8 a)Cement b)M.Sand c)40MM Aggregates d)20MM Aggregates e)Sand for Plastering	65.7	Cum	5	5	100%
2)Cube M15	43.8	Cum	4	4	100%
3)Bricks-Compressive Strength	5.94	Cum	1	1	100%
TOTAL			**10**	**10**	**100%**

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-16g/CEMENT/2019-20 Date: 22.01.2020

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of Work	:	Providing Borewell and Pipeline work in Kodigehalli Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	Cement
Sample Received on	:	20.01.2020
Period of Testing	:	20.01.2020 to 22.01.2020
Report Issue Date	:	22.01.2020

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	27.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	390 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-16g/SAND-Gradation/2019-20 22.01.2020

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of Work	: Providing Borewell and Pipeline work in Kodigehalli Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	: Fine Aggregates (Manufactured Sand)
Test Method As Per	: IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	: 20.01.2020
Date of Testing	: 22.01.2020
Report Issue Date	: 22.01.2020

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.10	90-100	90-100	90-100	95-100
2.36	78.30	60-95	75-100	85-100	95-100
1.18	63.30	30-70	55-90	75-100	90-100
600 Micron	41.40	15-34	35-59	60-79	80-100
300 Micron	21.20	5-20	8-30	12-40	15-50
150 Micron	4.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-16g/AGG/GR/2019-20 22.01.2020

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of Work	:	Providing Borewell and Pipeline work in Kodigehalli Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	20.01.2020
Date of Testing	:	22.01.2020
Report Issue Date	:	22.01.2020

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.96	95-100	85-100
20	39.92	30-70	0-20
10	19.52	10-35	0-5
4.75	3.42	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

Note:

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-16g/AGG/GR/2019-20 22.01.2020

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of Work	:	Providing Borewell and Pipeline work in Kodigehalli Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	Coarse Aggregates (20mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963(RA-2016)
Sample Received on	:	20.01.2020
Date of Testing	:	22.01.2020
Report Issue Date	:	22.01.2020

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
40	100	100	100
20	97.24	95-100	85-100
10	37.54	25-55	0-20
4.75	5.50	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-16g/Bricks/2019-20 27.01.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF BRICKS

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of work	:	Providing Borewell and Pipeline work in Kodigehalli Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	Bricks
Test Method As Per	:	IS - 3495 (Part-1) :1992 (RA-2016)
Sample Received on	:	22.01.2020
Date of Testing	:	27.01.2020
Report Issue Date	:	27.01.2020

Sl.No.	Size of Bricks are in mm	Weight of Bricks in gms	Failure load in KN	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)	Class Designation As per IS: 1077:1992 (RA-2016)
1	220x100x75	3485.60	86.7	3.94	3.91	3.5
2	220x100x75	3495.20	88.3	4.01		
3	220x100x75	3468.90	89.2	4.05		
4	220x100x75	3478.50	82.4	3.75		
5	220x100x75	3489.60	83.1	3.78		

* Information is furnished by the Customer/Representative

Note :

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-16g/SAND-Gradation/2019-20 06.02.2020

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of Work	:	Providing Borewell and Pipeline work in Kodigehalli Ward No.08, Kodigehalli, BBMP, Bangalore.
*Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
*Sample ID	:	Sand For Plastering
Test Method As Per	:	IS - 1542 : 1992 (RA-2019)
Sample Received on	:	04.02.2020
Date of Testing	:	06.02.2020
Report Issue Date	:	06.02.2020

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specification Limits as per IS : 1542 - 1992 (RA-2019)
10	100	100
4.75	98.90	95-100
2.36	97.60	95-100
1.18	95.10	90-100
600 Micron	90.20	80-100
300 Micron	47.20	20-65
150 Micron	12.20	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-16g/Cube/2020-21 13.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Providing Borewell and Pipeline work in Kodigehalli Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	Cement Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.06.2020
Report Issue Date	:	13.06.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.05.2020	13.06.2020	8.159	378.9	16.84
2	16.05.2020	13.06.2020	8.205	395.4	17.57
3	16.05.2020	13.06.2020	8.378	415.9	18.48

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-16g/Cube/2020-21 13.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Providing Borewell and Pipeline work in Kodigehalli Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	Cement Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.06.2020
Report Issue Date	:	13.06.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.05.2020	13.06.2020	8.260	389.9	17.33
2	16.05.2020	13.06.2020	8.305	419.3	18.64
3	16.05.2020	13.06.2020	8.395	409.8	18.21

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-16g/Cube/2020-21 13.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Providing Borewell and Pipeline work in Kodigehalli Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	Cement Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.06.2020
Report Issue Date	:	13.06.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.05.2020	13.06.2020	8.260	389.9	17.33
2	16.05.2020	13.06.2020	8.305	419.3	18.64
3	16.05.2020	13.06.2020	8.395	409.8	18.21

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-16g/Cube/2020-21

13.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Providing Borewell and Pipeline work in Kodigehalli Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	Cement Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.06.2020
Report Issue Date	:	13.06.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.05.2020	13.06.2020	8.116	375.8	16.70
2	16.05.2020	13.06.2020	8.220	385.9	17.15
3	16.05.2020	13.06.2020	8.380	395.9	17.60

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-16g/Cube/2020-21 13.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Providing Borewell and Pipeline work in Kodigehalli Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	Cement Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.06.2020
Report Issue Date	:	13.06.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.05.2020	13.06.2020	8.102	380.2	16.90
2	16.05.2020	13.06.2020	8.225	375.6	16.69
3	16.05.2020	13.06.2020	8.323	398.2	17.70

*Information is furnished by the Customer/Representative.

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

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